



APR 81

## LAKEHEAD AMATEUR RADIO CLUB BULLETIN

*Founded 1934      Incorporated 1979*

The next regular meeting of the LARC will take place this April 9, at the E.M.O. Building at the corner of Waterloo and Victoria. Time is 8:00 p.m. sharp. If you have attended any of the past meetings you will know that they start on time and end early. The post-meeting get togethers have been held at Shakeys Pizza, and this thursday will probably be no exception. If you can't make it to the general meeting meet the guys there later.

Looking for a place to go next month. The ARROWHEAD AMATEUR RADIO CLUB and the boys in Duluth are holding their annual SWAPFEST.. The time is May 9. from 10:00 a.m. till 3:00 p.m. Admission is \$200 at the door or \$1.50 advance. There will be over \$500. in prizes this year so go south and join in the fun. (remember thats \$600 in Canadian funds). For more information the contact is either Kb-OLC Duane, or KAØ-EYL Dave at 4907 Peabody St or 4130 Colorado Stt. Duluth. Talkin on the 34/94 repeater. This is the Mothers Day weekend. Make a trip out of it. Take Mama there for shopping at Miller Hill Mall and then you have an excuse to go to the SWAPFEST.

A small issue this month. It's deadline time and nothing else has come in so I can go and try out the HF bands. Why is it that the best conditions on the band are when I have 5 more stencils to type.

### CLUB STATION VE3·FW

HI - Q, APRIL 1981

THE    PREZ    SEZ

My apologies to those of you who showed up at the last meeting to hear our guest speakers, unfortunately they could not make it due to unforeseen commitments. We will try to have them at a later date.

The SWL convention to be held at the Airplane this July should be an interesting time for both SWL's and Hams. Tickets are available for the Saturday at \$10 per head which includes the Sunday morning breakfast. Tickets are also available for the Friday evening banquet and I know a few of the club members will be planning on attending. If you wish tickets for this event let me know and we will try and arrange for them.

The LARC will have a ham booth set up, hopefully in operation, and anyone interested in helping out please let me know.

I have also received a letter from the Canada Games Committee requesting help for the cycle race. The letter reads in part "..... May we again solicit the able assistance your club can provide with the point to point communications in order that the events take place in an efficient and controlled manner. Bill Klemacki has expressed concern over the timing of the races and the availability of your members. We have discussed this matter and hope that AT LEAST 8 (eight ) of your club members can assist each day, of course if a larger number are available we would be delighted. In order that your club members could schedule their time, below are the times and locations of the races taken from the games Logistics.

AUGUST 18, 1981 Lakeshore drive, Means Team T.T.  
0800 hrs to 1300 hrs.

AUGUST 19, 1981 Lakeshore drive, Womens Individual T.T.  
0800 hrs - 1200 hrs.

AUGUST 21, 1981 City Streets, Womens road race  
0800 - 1130 hrs.

AUGUST 21, 1981 City Streets, Mens road race  
1130 - 1530 hrs.

In your discussions with Bill Klemacki, he has probably advised that most assistance is required on FRIDAY, AUGUST 21, 1981.

We trust you will be able to assist us again and make the cycle racing an enjoyable experience for both the young racers and the spectators .....

Lakehead Amateur Radio Club History Project

signed J.F. Harrison, Venue Manager.

APRIL HI-Q 1981

## A NEW REPEATER NORTH OF SUPERIOR

VE3-WRR Repeater Report 146.16/76

After several months of work, VE3-WRR repeater has gone on the air in Manitowadge and currently is the only repeater in operation between the Soo and Thunder Bay.

The repeater will be tested for bugs for about 2 months from my QTH here in Manitowadge. Range is expected about 15 miles from town. Any visitor to the area is invited to kerchunk the machine and give me a shout. Because this is a new machine, everyone gets 2 free kerchunks per day during the first month, HI!

Sometime in May hopefully, the repeater will be moved. Permission was finally obtained to try out an installation on a commercial tower at White River. Because of possible intermod problems, the repeater will be tested for about one month to look for interference with other services.

The frequency of 145.16/76 was OKed last year by the N.R.C. (NORTHERN REPEATER COUNCIL) and should find wide acceptance due to its popularity. Further news concerning VE3-WRR will be issued in the next few months as things begin to develop.

73 - Gord Woroshelo VE3-EYW

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FOR SALE FOR SALE FOR SALE FOR SALE

Tranceiver.....Yaesu FT-401-B complete with phone patch and a Yaesu external VTO.

Also a Yaesu FT-301 tranceiver comp etc with a 110 volt power supply. For both of the above, contact Les VE3-JAJ at 683-5304

- - - - -  
Want to get into the computer game????? Here is your chance to buy a Radio Shack TRS-80 level 1 4K computer. More information from Vlad VE3-KRV 577-1551.

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FOR SALE And EICO model 505 volt-ohm meter, a Heathkit electronic keyer model HD-1410, code practice records, and Archer handkey, a CW Hallicrafters HT-17, 15-10 watts less crystals. This is about an 1947 model and no manuals are supplied. For sale, a Bliley crystal KV3, 100 kcs. Contact Les VE3AYZ 623-6701 for all of these.

CRRL NEWS BULLETIN (dated) MARCH 30, 1981

Watch your newspaper for date of launch of the U.S. space shuttle. Then monitor 7.280, 14,285 or 21.380. Amateur station WB4-ICJ will be operating from Cape Kennedy Space Centre. A special commemorative Certificate will be available for those who work WB4-ICJ on the launch day only.

APRIL 1981 HI - Q

FOR SALE FOR SALE FOR SALE

- 1, KWS1 - Collins  
Atlas 210 Laurie BCD
2. Model 19 RTTY machine complete.  
KIM -1 microprocessor Bob IDJ 767 6541
3. Multi 7 - 2 mtr  
40 watt linear for VHF  
Heathkit mike and phone patch  
Heath oscilloscope- model IO-4560  
KW 2000 A XCVR ( needs work )  
Heath Seneca VH - 1 Xm tr 50 -54 MHz, 144 - 148.3 Mhz.  
Arnold, JAA 344 8361  
Remote VFO for Uniden 2020, \$75 BILL ECM, 622 4955
5. All band trapped dipole Bob JAB
6. GRS gear for modification to 10 mtrs. Walt ERX Price Negot.
7. 1 - Motorola handi talki Mod 300H 94/94 xtls. Charlie BLV \$45
8. DX 40 XMTR EXC. cond. complete with XTALS, VFO, F.S.M.  
75 meter thru 10 mtr. 75 watt. Dave AVS 344 8949.
9. Hy gain ~~XXXXXX~~ TH33JR Never used, original carton \$ 190  
Bert BKY
- 10 Ten Tec mity mite, c/w manual, head phones \$75. Charlie BLV
11. Heath SWR mtr; Taylor L.P. Filter; Mosley TA33JR Tri-Band beam  
Homebrew 10 element beam for ten mtrs; 90 ft. commercial twr;  
Ham "M" CDR rotor and cable; Telescopic mast.  
Bert, BSS 683 8660
12. Realistic AX 190 Ham band rcvr. excl. cond. \$ 200  
Lorne Saxburg 683 8512
13. Heath SB 300 RCVR excl. cond. Gary at 3449685 ext. 227 Or 7676550
14. multi-2 Two mtr. xcvr, 25 watt synthesized.  
1 - ICO 753 HF rig, 80,40, 20 cw and ssb  
Denny, EUI
15. 3- element Gem Quad. Vlad, KRV. 577 1551
16. Drake 2C RCVR and 2 NT cw XMTR, globe VFO . IAN DORFMAN 5772980
17. Heathkit Q multiplier, AYZ, Les.
18. Heath electronic keyer, NW. \$100, Les AYZ or Bob, JAB.
19. HW - 12. Good cond. c/w mike, ac/dc pwr supply, manual  
\$200. Charlie, BLV - Kenora.
20. Yaesu FT 101ZD. Tim, HCM, 622 2310

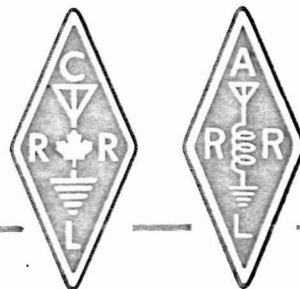
WANTED WANTED WANTED

Bill, APM - 6HF5 tubes  
Gerry, HQI - New model XCVR call 344 7998 (bus) 344 9685 (home )  
Charlie BLV- SX 117 Hallicrafter RCVR  
Harry, JNN - SSTV Camera, ROBOT model 80 preferred.  
Don, JLL - 250 watt dummy load and 8 conductor rotor cable.  
Dan, KRO - Parts for electronic keyer  
The above listings are from the N.W.O. swap net Wednesday nights  
right after the net. 815 local time. Thanks to LME, Ivan for the  
Lakehead Amateur Radio Club History Project Info.

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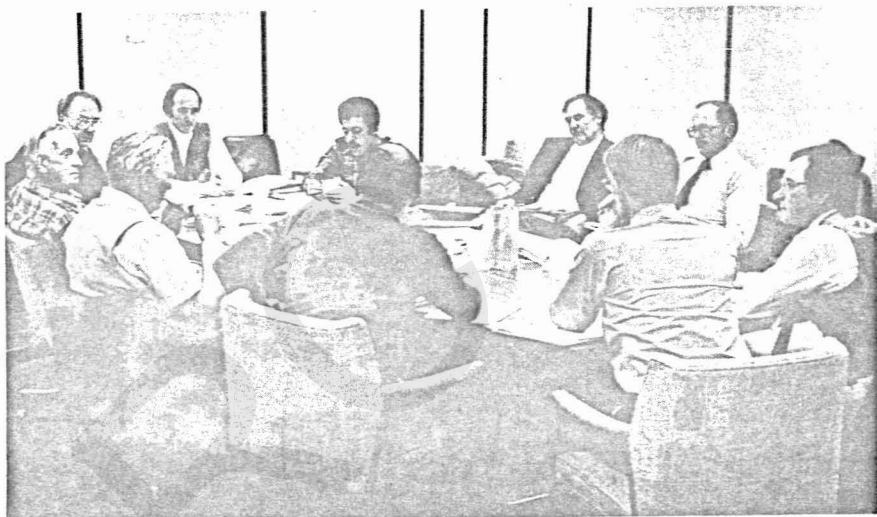
# CRRL NEWSLETTER

A SERVICE TO AFFILIATED CLUBS



Number 6, 1981 January-February

CRRL and CARF representatives met with DOC in Ottawa on January 26, to discuss a new, revised TRC-24. Seated around the table, clockwise, starting lower right, are CARF's Bill Wilson, VE3NR; Ron Walsh, VE3IDW; Art Blick, VE3AHU; and Art Stark, VE3ZS. Next, DOC's Lloyd Neilson and Jean-Jacques Rosseau; CRRL's Ralph Zbarsky, VE7BTG; DOC's Scott Fitzgerald; CRRL's Mitch Powell, VE3OT; and DOC's Larry Greetham. Also in attendance for CRRL: Harry MacLean, VE3GRO.



Amateurs from both organizations found the meeting friendly and constructive. Recommendations were well-received by DOC. If adopted, DOC would 1) re-introduce code sending tests, 2) permit up to three errors on code sending and receiving tests, 3) ask both multiple choice and essay type questions on technical portions of exams, and 4) make a clear distinction between levels of difficulty for the Amateur and Advanced Amateur exams. The Amateur exams would require a conceptual and practical knowledge of material only, the Advanced Amateur a more detailed knowledge. Discussion of syllabus content took place. Both CRRL and CARF were asked to provide detailed outlines within three weeks. The CRRL outline was prepared by Mitch Powell, VE3OT, an experienced technical instructor. It not only listed content, but also indicated performance objectives for items in the list. Target dates for the revised TRC-24 are publication by September, 1981, and implementation by January, 1982.

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DOC has informed CRRL of a new third-party agreement with Australia, and a new reciprocal licencing agreement with Erie, the Republic of Ireland. The third-party agreement with Australia was requested by CRRL last fall. Note that it does not permit phone patches with VK stations.

...please turn to page 2

Yes! Use items from the CRRL Newsletter in your club bulletin or paper. When you're done with this Newsletter, please pass it along to a friend. 73...

The Canadian Radio Relay League, Inc.  
Box 7009, Station E, London, ON N5Y 4J9

LARC



APRIL, HI-Q 1981

## A CHEAP COUPLER

In a recent HAM RADIO, they described how to make a coupler out a coax 'T' and a double female connector.

Basically its done as follows: remove the centre connector from the 'T' and replace it with a screw, so that when the double female is screwed in no contact is made. Then put some tape between the screw to insure isolation.

It seemed like a simple system so I deciddd to build one and see how it worked.

By changing the depth that the female was screwed into the 'T' the amount of coupling could be changed.

In the table is the frequency and the minimum and maximum degree of coupling and the VSWR of the device.

FREQUENCY	MAXIMUM	MINIMUM	VSWR
5MHZ	68db	75db	1.03:1
10	62	78	1.03:1
20	60	70	1.03:1
30	55	70	1.04:1
50	46	62	1.06:1
100	42	60	1.17:1
150	42	54	1.20:1
200	36	54	1.28:1

For those of you who ain't familiar with db's keep this in mind. If you had a 1 KW transmitter listed below are the outputs with various degrees of coupling.

30	1 volt
40	0.1 volt
50	0.01 volt
60	0.001 volt
70	0.0001 volt

You will notice that as the frequency increases so does the VSWR. This is probably due to the connector itself and has nothing to do with the coupler.

I also checked the isolation by putting amegger on it and there was no evidence of breakdown. This is the ideal device for measuring frequency or checking patterns with a scope.

Again, I can claim no originality for this idea (darn) but just checked it out and found it works.

Bill VE3-EFC

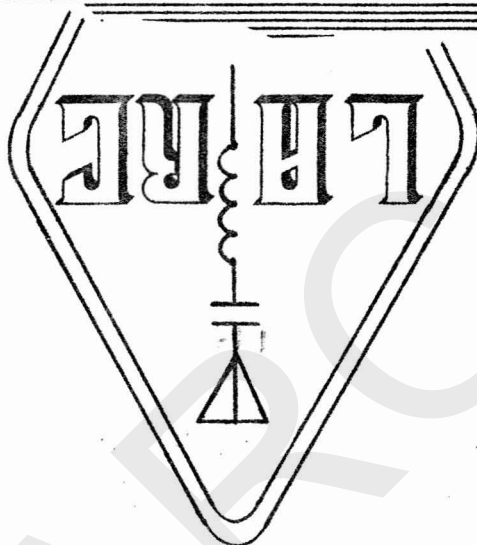
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DSI Instruments closed its doors January 15, and an inventory and audit are presently under way to determine what assets may be available for its creditors. The San Diego credit Association reports some interest in DSI by prospective purchasers

from ARROWHEAD ARC (Duluth)  
& HR Report

If mailing cards to the USA and enclosing an SASE, remember that the cost of sending mail has increased to 18 cents there.

# LAKEHEAD AMATEUR RADIO CLUB



HI-Q BULLETIN

LAKEHEAD AMATEUR  
RADIO CLUB  
**BOX 2571**  
THUNDER BAY 'P' ONT.  
CANADA  
P7B:5G1



TO

Bill Unger VE3EFC  
431 N. Syndicate Avenue  
THUNDER BAY "F", Ontario